

Appl. No.: 10/608,580  
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### Amendments to the Abstract

### ABSTRACT OF THE DISCLOSURE

The present invention includes a method of growing a doped glass layer ~~[[films]]~~ suitable for optical applications on a substrate comprising the steps of conveying an organometallic compound of the formula  $(R_1SiO)_jM(OR')_k$   ~~$(R_1SiO)_jM(OR')_k$~~  to the substrate and reacting the silica forming substance and the organometallic compound to form the optical layer on the substrate, where M is a metal;  $R_1$  is methyl, ethyl or propyl;  $R'$  ~~[[R'-]]~~ is methyl, ethyl, n-propyl, n-butyl, isobutyl or s-butyl; j is 1, 2, 3 or 4; and  $k=4-j$ . The present invention also includes planar optical devices made by the above method. Additionally, the present invention includes an optical fiber made by the above method.